

Ameresco • Framingham, MA • Energy–Winner

Description

In August of 2007, Bridgewater State College (BSC), the Massachusetts Division of Capital Asset Management (DCAM), and Ameresco, Inc. completed a \$10.4 million comprehensive Energy and Water Conservation Project which was part of the College's greening program. Covering 1.5 million square feet across thirty campus buildings, the project provided the college with two distinct benefits. The first is nearly \$1 million in annual energy cost savings, guaranteed and verified by Ameresco over a twenty year performance period. The second is a package of capital improvements to the campus energy systems which will also provide savings through deferred maintenance. The implemented energy conservation measures (ECMs) will also serve as a valuable energy management and monitoring tool for the college's facilities as they continue a progressive policy of environmental responsibility. Bridgewater's initiative in partnering with Ameresco and DCAM's support throughout the project led to the successful and exemplary execution of the state's Energy conservation program. The project was executed and built in 14 months starting March 2006 a true tribute to the College's dedication to improving their campuses and the environment overall.

Annual Environmental Reduction:

Carbon Dioxide (CO₂) Emissions 6,271 tons 33% • Sulfur Dioxide (SO₂) Emissions 23,500 pounds 16% • Oxides of Nitrogen (NO_x) Emissions 8,100 pounds 18%

Energy Conservation Measures:

High-Efficiency Lighting	Variable Frequency Drives on AHU's	Replace Kelly Gym Locker Room H&V Unit
Lighting Controls	Variable Frequency Drives on Pumps	Replace Kelly Gym Unit Ventilators
High Efficiency Motors	Vending Machine Controllers	Repair Radiator Controls in Dormitories
Energy Management System	Hunt Hall Window Replacement	Piping Insulation
Campus Wide Electric and Steam Metering	Cogeneration	Kitchen Hood Controls
Domestic Water Conservation	New Boiler Controls at Central Plant	Field House Laundering Improvements
Replace All Steam Traps	Underground Steam & Condensate Piping Replacements	New Air Conditioning System in Rondileau
		New Boiler in Hunt Hall



Comprehensive Energy and Water Conservation Performance Contract

Bridgewater State College
Completion Date: August 28, 2007
Project Size: 1.5 Million Square Foot Facility
Project Cost : \$10.4 million

Ameresco Team

George P. Sakellaris, President and CEO
Joe P. DeManche, PE, Executive Vice President
Anthony Colonnesee, Director - Engineering Services
Peter Christakis, Director - Construction
Kailash Viswanathan, CEM, LEED, AP, Senior Project Manager
Ken Anderson, PE, Senior Engineer
Chris Lewis, Assistant Project Manager

DCAM Project Team

David B. Perini, Commissioner
Michael L. McKimney, Deputy Commissioner
Design and Construction
Michael J. Lambert, Director
Robert Barry, Deputy Director
Barry Heidke, Project Manager
Robert Harvey, Project Engineer
Don Marcotte, Resident Engineer
Facilities Maintenance
Hope Davis, Director
Lisa Musiker, Energy Planner
Michael Reinhardt, Energy Planner
Consultant
Sebesta Blomberg, Commissioning Agent

User Agency

BSC Project Team
Miguel Gomes, Associate VP, Facilities Management and Planning
Denis Maguy, Consultant for Bridgewater State College
Keith MacDonald, Director of Facilities
Karen Jason, Director of Planning and Construction
Bill Richards, Associate Facilities Director
Robert Fisher, Assistant Director of Facilities
Joe Amato, Facilities Manager
Sonia Rego, Project Coordinator
Joe Mantia, Utility Plant Operator
Bob Drummond, Chief Engineer, Boiler Plant
Elliot Gove, Instrumentation Technician
Patricia Delaney, Environmental Health and Safety Officer



This project achieves annual
greenhouse gas emissions
reductions over 20%.

